

**Sealed Sources for Industrial Gauging, Instrument Calibration and Analytics**  
**ИГИА-1 - 14 (IGIA-1 - 14) Series Am-241 Gamma Sources**

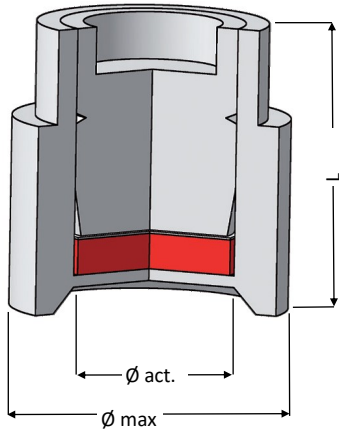


Fig. 1

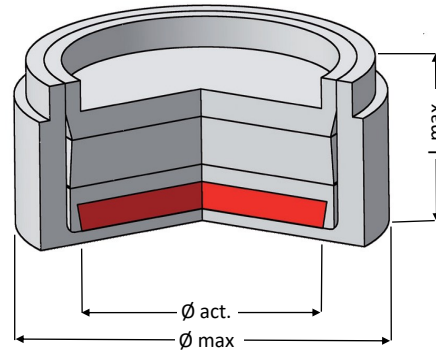


Fig. 2

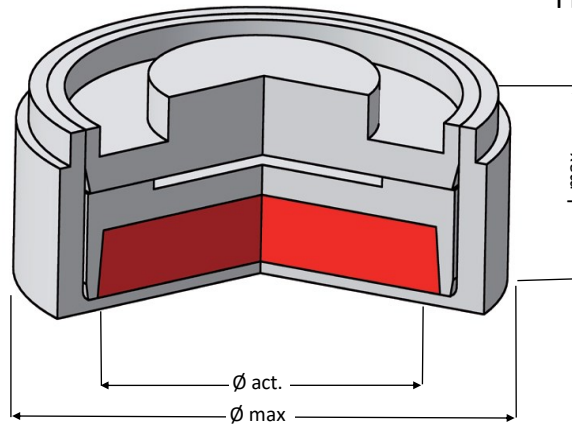


Fig. 3

**Technical Specification**

Special Form Certificate:	RUS/1014/S-96
ISO Classification:	E65445
Recommended Working Life:	15 years
Quality Control Tests	In accordance with ISO2919/ ISO9978
Quality System Compliance	ISO9001
Active Material	Am-241 bonded into a ceramic pellet
Capsule Material	Stainless steel equivalent to grade 300 for IGIA-1M, -2M, -3M, -4M, -5M. Stainless steel equivalent to grade 316L for IGIA-6, -7, -8, -9, -10, -11, -12, -13, -14
Capsule Type	Configuration as above. See table

**Country of Origin**

Sources are designed and manufactured by FSUE "MAYAK" P.A., Lenin Pr., 31, Ozyorsk, 456784, Russia.

**Ordering Process**

To specify the source required state the product code in Russian or English and the maximum activity.  
e.g. IGIA-5M-1, 2.24Ci. Product certification shall use Russian script product code only.

**Contact**

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## Product Availability

Max. Activity Am-241 (Ci)	Density of photon flux at a distance of 1 metre from the working surface (photons.sec <sup>-1</sup> .cm <sup>-2</sup> )	Φ max (mm)	Φ active (mm)	L max (mm)	Schematic ref.	Product Code (Official Russian)	Product Code (English)
7.80 mCi	430 ± 130	6.2	4.0	6.5	Fig.1	ИГИА-1М-2	IGIA-1М-2
14.0 mCi	860 ± 260	6.2	4.0	6.5	Fig.1	ИГИА-1М-3	IGIA-1М-3
32.0 mCi	(2.20 ± 0.66) x 10 <sup>3</sup>	6.2	4.0	6.5	Fig.1	ИГИА-1М-4	IGIA-1М-4
100 mCi	(3.60 ± 1.08) x 10 <sup>3</sup>	6.2	4.0	6.5	Fig.1	ИГИА-1М-5	IGIA-1М-5
250 mCi	(8.00 ± 2.40) x 10 <sup>3</sup>	8.2	6.0	6.5	Fig.1	ИГИА-2М	IGIA-2М
480 mCi	(14.0 ± 4.2) x 10 <sup>3</sup>	10.2	8.0	6.5	Fig.1	ИГИА-3М	IGIA-3М
140 mCi	(6.70 ± 2.00) x 10 <sup>3</sup>	12.2	10.0	6.5	Fig.1	ИГИА-4М	IGIA-4М
700 mCi	(22.0 ± 6.6) x 10 <sup>3</sup>	12.2	10.0	6.5	Fig.1	ИГИА-4М-1	IGIA-4М-1
430 mCi	(23.0 ± 6.9) x 10 <sup>3</sup>	20.2	18.0	6.5	Fig.1	ИГИА-5М	IGIA-5М
2.24 Ci	(70.0 ± 21.0) x 10 <sup>3</sup>	20.2	18.0	6.5	Fig.1	ИГИА-5М-1	IGIA-5М-1
4.60 mCi	250 ± 75	8.0	4.2	5.0	Fig.2	ИГИА-6-2	IGIA-6-2
13.0 mCi	800 ± 240	8.0	4.2	5.0	Fig.2	ИГИА-6-3	IGIA-6-3
110 mCi	(5.30 ± 1.60) x 10 <sup>3</sup>	10.8	8.0	5.0	Fig.2	ИГИА-8	IGIA-8
110 mCi	(5.30 ± 1.60) x 10 <sup>3</sup>	10.8	7.5	6.0	Fig.3	ИГИА-9	IGIA-9
350 mCi	(15.0 ± 4.5) x 10 <sup>3</sup>	15.0	12.0	6.0	Fig.3	ИГИА-10	IGIA-10
570 mCi	(28.0 ± 8.4) x 10 <sup>3</sup>	22.0	18.0	6.0	Fig.3	ИГИА-11	IGIA-11
1.11 Ci	(50.0 ± 15.0) x 10 <sup>3</sup>	30.0	25.0	6.0	Fig.3	ИГИА-12	IGIA-12
3.51 Ci	(120 ± 36.0) x 10 <sup>3</sup>	36.0	31.0	8.0	Fig.3	ИГИА-13	IGIA-13
6.80 Ci	(200 ± 20.0) x 10 <sup>3</sup>	45.0	40.0	8.0	Fig. 3	ИГИА-14	IGIA-14

Other activities available on request. Please enquire.

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